1. Scope

This Material Safety data Sheet is applied to HYB rechargeable lithium ion battery of the following mentioned type for various applications in mobile communication devices and portable power systems.

2. Battery Classification

2.1 Battery Classification: HYB Lithium Ion Battery

3. Standard

The Material Safety data Sheet is based on the technical specification of GB/T 18287-2000, UL 1642 and IEC61960.

4. Ingredients

Ingredients	Gram	CAS Number	LD50 (mg/kg) (oral-rat)	LC50 (mg/L)
Aluminum foil	0.01~0.1 g	7429-90-5	N/AV	N/AV
Biphenyl (BP)	0.01~0.03 g	92-52-4	2400	N/AV
Copper foil	0.01~ 0.1 g	7440-50-8	3.5 (ipr-mouse)	N/AV
Linear and Cyclic Carbonate Solvents	0.5~ 1.7 g	N/APP	~11000 (weight avg)	N/AV
Graphite, powder	1~3 g	7440-44-0	440 (ivn-mouse)	N/AV
Lithium Cobaltite (LiCoO2)	1~3 g	12190-79-3	N/AV	N/AV
Lithium Hexaflurophosphate (LiPF6)	0.1~0.5 g	21324-40-3	1702	Rat:>20
Poly (vinylidene fluoride) (PVDF)	0.01 ~0.1 g	24937-79-9	N/AV	N/AV
Steel, nickel and inert polymer	Balance	N/APP	N/APP	N/APP

5. Physical Data

Specific Gravity: (H_2O=1): $LiCoO_2$: 4.95, Graphite: 2.09~2.2

Melting Point: (^oC) $LiCoO_2$ about 1130_C

Appearance and Odor: LiCoO2 is a black, odorless powder

C is a black, odorless powder.

Organic solvent is a colorless or light yellow liquid

Lithium salt is a white, crystalline and odorless powder